

SUMMATIVE - DUE July 23rd, 2014

Part 1 - A Day in the Life of...

A.) Me....

You are to write a short story about physics connections in typical day in your life (as much realistic fiction as you wish of course). Your story will describe 20 activities during a typical day that will include commentary or reflection based on the areas of physics that you studied this year.

- a) Forces and Motion: Dynamics
- b) Energy and Momentum
- c) Electrical, Magnetic and Gravitational Fields
- d) The Wave Nature of Light
- e) Modern Physics

Your story must use a minimum of two activities/connections from each area. A reasonable explanation should only take three or four sentences. Please number each of your 20 activities in the text.

For Example:

On my way to school today I turned on the radio in the car. I noticed the digital display was lit by LED's. This phenomenon of course is photons being released by electrons moving in a semiconductor material when a voltage is applied....

B.) A career professional

You are to write 3-5 paragraphs (500-750 words) about physics connections in a possible career path for yourself. Your paragraphs should include:

- Description of career
- Typical activities in that career
- How physics has influenced or changed that career (or could possibly in the future)
- How high school Physics helps prepare you for the career
- Description of any technological device used in the career

Part 2 – Problem Solving

You are to solve at least 8 problems with FULL solutions. You select the problems.

At least one problem from each unit/subunit will be solved

Unit 1a: Kinematics

Unit 1b: Dynamics

Unit 2a: Energy

Unit 2b: Momentum

Unit 3a: Electricity

Unit 3b: Magnetism

Unit 4: Waves

Unit 5: Modern Physics